

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Oliphant et al.

Serial No.:

Group No.:

Filed:

Examiner:

For: MODULAR FIBERGLASS REINFORCED POLYMER STRUCTURAL POLE
SYSTEM

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

1. Preliminary Statements
2. Forms PTO 1449 (now PTO/SB/08A and 08B)
3. Copies of Listed Information Items Accompanying This Statement
4. Concise Explanation of English Language Listed Information Items
5. Identification of Person(s) Making This Information Disclosure Statement

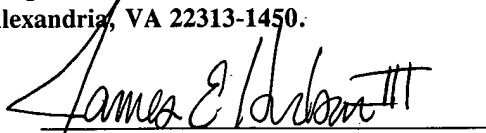
Section 1. Preliminary Statements

Applicant(s) submits herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this Information Disclosure Statement and the documents referred to as attached thereto are being deposited with the United States Postal Service on the date listed below, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EU 333 640 565 US, addressed to the: Mail Stop Patent Application, PO Box 1450, Alexandria, VA 22313-1450.

01-28-2004
Date


James E. Hudson III
Registration No. 31,842

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. PTO 1449 (Now Forms PTO/SB/08A and 08B)

PTO Form 1449 is attached hereto.

Section 3. Copies of Listed Information Items Accompanying This Statement

Pursuant to waiver by the United States Patent and Trademark Office of 37 CFR § 1.98(a)(2)(i) for applications filed after 6/30/03, copies of US patents listed in this statement are not provided. Legible copies of foreign patents and non-patent documents, if any are cited, accompany this information statement.

Section 4. Concise Explanation of English Language Listed Information Items

1. U.S. Pat. No. 466,012, issued to J.S. Seaman, on December 29, 1891

Discloses a method for the manufacture of posts and poles utilizing welding as a joining process for the steel plates comprising the improved post and poles.

2. U.S. Pat. No. 999,267, issued to E. E. Slick, on August 1, 1911

Discloses a method of making tapering metal poles. This invention eliminates the requirements of inner webbing and a nested section required for vertical strength. The invention does not utilize mechanical bolting or welding as a means of fastening. The invention utilizes rolled blanks forming interlocking edges running vertically such that the rolled sections may be assembled.

3. U.S. Pat. No. 3,196,990, issued to H. E. Handley, on July 27, 1965

Discloses a tapered structural member and method of making same. This invention utilizes aluminum as the preferred material and incorporates welding as a method of fastening longitudinal peripheral portions.

4. U.S. Pat. No. 3,276,182 issued to H. E. Handley on October 4, 1966

Discloses a taper structural member constructed from sectional vertical members coupled by tongue and groove fits. Internal bolting prevents rotation about the long axis of the vertical member.

5. U.S. Pat. No. 3,291,437 issued to G. F. Bowden et al. on December 13, 1966

Discloses a flexible panel with abutting reaction shoulders under compression for use in a vertical load-bearing member.

6. U.S. Pat. No. 3,557,422 issued to H. C. Pfaff, Jr. on January 26, 1971

Discloses a method of forming a pole base structure consisting of slotted panels arranged in a geometrically stable pattern. Each panel consists of a crimped edge, which is designed to be inserted into the slotted portions of the panels.

7. U.S. Pat. No. 3,571,991 issued to Edward S. Doocy et al. on March 23, 1971

Discloses a tubular steel pole with pairs of sidebars and web members secured together by welds along the edges of the sidebars. Internal bracing exists at points where sidebars extend outward.

8. U.S. Pat. No. 4,312,162 issued to Jonas Medney on January 26, 1982

Discloses a reinforced fiberglass pole suited for use in electric transmission systems. The invention utilizes reinforcing regions consisting of composite material made from pre-stressed longitudinally disposed fibers.

9. U.S. Pat. No. 5,285,613 issued to W. Brandt Goldsworthy et al. on February 15, 1994

Discloses a pultruded joint system and tower structure including re-entrant slots which lock into place horizontal members used to support a vertical load.

10. U.S. Pat. No. 5,319,901 issued to Goldsworthy et al. on June 14, 1994

Discloses a technique for connecting a cross member brace between a column and another cross member. A dovetailed shoulder fit facilitates the interlocking connection.

11. U.S. Pat. No. 5,617,692 issued to Johnson et al. on April 8, 1997

Discloses composite structure made entirely from interlocking pultruded composite members. The interlocking members found in this invention are non vertical strengthening members located to give the vertical structure rigidity.

12. U.S. Pat. No. 5,644,888 issued to David W. Johnson on July 8, 1997

Discloses a heavy construction system using composite members, which are interfit using a dovetailed shoulder fit with other composite members to form a rigid post and beam or beam and brace.

13. U.S. Pat. No. 5,864,998 issued to Weston R. Loomer on February 2, 1999

Discloses modular structure members disposed in adjacent co-acting positions so that a selected number of modules assembled together form a peripherally enclosed modular structural member.

14. U.S. Pat. No. 6,094,881 issued to William D. Lockwood on August 1, 2000

Discloses a modular fiberglass reinforced polymer pole system comprising at least two corner pieces, each corner piece having two ends, and having a continuous channel and further comprising at least two tapered panel pieces, each panel piece designed to be glued into the slot of corner piece when said panel piece is fully inserted into said corner slot.

15. U.S. Pat. No. 6,286,281 issued to David W. Johnson on September 11, 2001

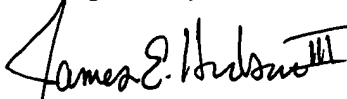
Discloses a tubular tapered composite pole for supporting utility lines formed from elongated panels made of pultruded composite material. The elongated panels are trapezoidal in shape featuring a tongue and groove fit along its mating surface with the adjacent elongated panel. The panels interlock to form a closed loop giving the vertical pole rigidity.

Section 5. Identification of Person(s) Making This Information Disclosure Statement

The person making this statement is:

- (a) ☐ the inventor(s) who signs below.
- (b) ☐ an individual associated with the filing and prosecution of this application.
- (c) ☒ the practitioner who signs below on the basis of the information:
 - ☐ supplied by the inventor(s).
 - ☐ supplied by an individual associated with the filing and prosecution of this application (37 CFR 1.56(c))
 - ☒ in the practitioner's file.

Respectfully submitted,



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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet _____ of _____

Application Number	
Filing Date	
First Named Inventor	Oliphant et al.
Art Unit	
Examiner Name	
Attorney Docket Number	P0432

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 466,012	12-29-1891	Seaman	
		US- 999,267	08-01-1911	Slick	
		US- 3,196,990	07-27-1965	Handley	
		US- 3,276,182	10-04-1966	Handley	
		US- 3,291,437	12-13-1966	Bowden et al.	
		US- 3,557,422	01-26-1971	Pfaff, Jr.	
		US- 3,571,991	03-23-1971	Doocy et al.	
		US- 4,312,162	01-26-1982	Medney	
		US- 5,285,613	02-15-1994	Goldsworthy et al.	
		US- 5,319,901	06-14-1994	Goldsworthy et al.	
		US- 5,617,692	04-08-1997	Johnson et al.	
		US- 5,644,888	07-08-1997	Johnson	
		US- 5,864,998	02-02-1999	Loomer	
		US- 6,094,881	08-01-2000	Lockwood	
		US- 6,286,281	09-11-2001	Johnson	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner
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Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.